Section 1. Course Title and Description

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

<table>
<thead>
<tr>
<th>Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 751</td>
<td>Predictive Analytics II</td>
<td>3</td>
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</table>

Course Description: Advanced Predictive Analytics. This course will examine advanced methodologies used in financial and predictive modeling. Topics covered include segmented scorecards, population stability, ensemble models, neural networks, MARS regression, and support vector machines. Prerequisites: STAT 551 and STAT 687, or instructor consent.

Section 2. Review of Course

Will this be a common or unique course? (select the appropriate option below)

X This course will be a unique course. (Go to Section 3.)

Section 3. Other Course Information

1. Are there instructional staffing impacts?

X No. Replacement of STAT 720 Bayesian Statistics which is (prefix, number, name of course, credits) being deleted. Effective date of deletion: Summer 2011

2. Existing program in which course will be offered: S.MS.STAT

3. Proposed instructional method: R (Lecture)

Provide a brief justification: Lecture is an efficient way to deliver this course’s content.

4. Proposed primary delivery: 001 Face to Face Term Based Instruction

Course Form #5 Updated AAC 03/2007
5. Term in which change will be effective: Summer 2011

6. Can this course be repeated for additional credit?
   ______ Yes, total credit limit: ________ ________ X  No.

7. Will the grade for this course be limited to S/U (pass/fail)? ______ Yes ______ X  No

8. Will section enrollments be capped?
   ______ X  Yes, maximum per section 20 ________ ______ No

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? ______ Yes ______ X  No

10. Is this prefix already approved for your university? ______ X  Yes ______ No

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**Section 4. To be completed by Academic Affairs**

1. University department code: SMATH

2. Proposed CIP code: 27.0501 Statistics, General

   Is this a new CIP code for this university? ______ Yes ______ X  No